


```

LL          000000    GGGGGGGG  MM      MM      SSSSSSSS  CCCCCCCC  PPPPPPPP
LL          000000    GGGGGGGG  MM      MM      SSSSSSSS  CCCCCCCC  PPPPPPPP
LL          00      00  GG      MMMM  MMMM  SS      CC      PP      PP
LL          00      00  GG      MMMM  MMMM  SS      CC      PP      PP
LL          00      00  GG      MM  MM  SS      CC      PP      PP
LL          00      00  GG      MM  MM  SS      CC      PP      PP
LL          00      00  GG      MM      MM  SSSSSS  CC      PPPPPPPP
LL          00      00  GG      MM      MM  SSSSSS  CC      PPPPPPPP
LL          00      00  GG      MM      MM      SS      CC      PP
LL          00      00  GG      MM      MM      SS      CC      PP
LL          00      00  GG      MM      MM      SS      CC      PP
LL          00      00  GG      MM      MM      SS      CC      PP
LL          00      00  GG      MM      MM      SS      CC      PP
LL          00      00  GG      MM      MM      SS      CC      PP
LLLLLLLLLLLL 000000    GGGGGG  MM      MM  SSSSSSSS  CCCCCCCC  PP
LLLLLLLLLLLL 000000    GGGGGG  MM      MM  SSSSSSSS  CCCCCCCC  PP

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[illegible]

LPA

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F 6
16-Sep-1984 00:05:20
5-Sep-1984 14:00:08

VAX-11 FORTRAN V3.4-56
DISK\$VMSMASTER:[ERF.SRC]LOGMSCP.FOR;1

Page 1

```
0001 c
0002 c Version: 'V04-000'
0003 c
0004 c*****
0005 c*
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0022 c* SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
0023 c*
0024 c*
0025 c*****
0026 c
0027 c
0028 c
0029 c Author Brian Porter Creation date 03-AUG-1983
0030 c
0031 c
0032 c++
0033 c Functional description:
0034 c
0035 c Modified by:
0036 c
0037 c V03-004 EAD0197 Elliott A. Drayton 21-Jun-1984
0038 c Changed code to use LSTLUN and RECORD_SIZE from SYECOM.
0039 c
0040 c V03-003 SAR0278 Sharon A. Reynolds 21-Jun-1984
0041 c Added TMSCP support.
0042 c
0043 c V03-002 SAR0171 Sharon A. Reynolds, 11-Nov-1983
0044 c - Removed the 'b_logmscp' routine.
0045 c - Changed the carriage control for use with ERF.
0046 c
0047 c v03-001 BP0001 Brian Porter, 07-SEP-1983
0048 c Added 'no-unit' code.
0049 c**
0050 c--
0051 c
0052 c
0053 c Subroutine LOGMSCP (lun,record_length)
0054 c
0055 c
0056 c include 'src$:msghdr.for/nolist'
0115 c include 'src$:emblmdef.for/nolist'
```



```
0184      include      'src$:syecom.for/nolist'
0312
0313      byte          lun
0314      integer*4     record_length
0315
0316      integer*2     logmscp_type
0317      equivalence   (emb(16),logmscp_type)
0318
0319      byte          mscp_packet(476)
0320      equivalence   (emb(36),mscp_packet(1))
0321
0322      integer*4     mscp$$b_opcode
0323      integer*4     mscp$$b_endcode
0324      integer*4     mslg$$b_format
0325      integer*4     packet_length
0326      integer*4     compress4
0327
0328
0329      call FRCTOF (lstlun)
0330      call HEADER (lstlun)
0331      call LOGGER (lstlun,'ERL$LOGMSCP ENTRY')
0332
0333      call LOGMSCP_HEADER ( )
0334
0335      packet_length = record_size - 36
0336
0337      call LINCHK (lstlun,1)
0338
0339      write(lstlun,10)
0340      format(' ',:)
0341
0342      if (logmscp_type .eq. 9) then
0343
0344      mscp$$b_opcode = lib$extzv(0,7,emb(44))
0345      mscp$$b_endcode = lib$extzv(0,8,emb(44))
0346
0347      call LINCHK (lstlun,1)
0348
0349      write(lstlun,15) 'UNEXPECTED END MESSAGE 'MSCP$W_STATUS''
0350      format(' ',t8,a)
0351
0352      call MOV3 (%val(packet_length),emb(36),emb(38))
0353      call MSCP$B_OPCODE_DISPATCHER (lstlun,mscp$$b_endcode,..true...false.)
0354
0355      else if (logmscp_type .eq. 10) then
0356
0357      mscp$$b_opcode = lib$extzv(0,7,emb(44))
0358      mscp$$b_endcode = lib$extzv(0,8,emb(44))
0359
0360      call LINCHK (lstlun,1)
0361      write(lstlun,15) 'UNEXPECTED ATTENTION CONTROL MESSAGE'
0362
0363      call MOV3 (%val(packet_length),emb(36),emb(38))
0364
0365      call LINCHK (lstlun,1)
0366      write(lstlun,10)
0367
```

```
0368 call MSCP_FIRST_TWELVE_BYTES2 (lstlun,.true.)
0369
0370 if (packet_length .gt. 12) then
0371
0372 call LINCHK (lstlun,1)
0373 write(lstlun,10)
0374
0375 call DUMPREG (lstlun,(((packet_length - 12) + 3)/4),emb(50))
0376 endif
0377
0378 else if (logmscp_type .eq. 11) then
0379
0380 mslg$$b_format = lib$extzv(0,7,emb(44))
0381
0382 call LINCHK (lstlun,1)
0383
0384 if (
0385 1 mslg$$b_format .eq. 0
0386 1 .or.
0387 1 mslg$$b_format .eq. 1
0388 1 ) then
0389
0390 write(lstlun,15) 'NO-UNIT DATAGRAM'
0391 else
0392
0393 write(lstlun,15) 'DATAGRAM FOR NON-EXISTING 'UCB'''
0394 endif
0395
0396 c
0397 c Although the 'emblmdef' format is not part of this kind of error log
0398 c entry it is necessary, because of the implementation chosen, to zero
0399 c the equivalent 'emb$b_lm_type' field and re-position the 'mscp' portion
0400 c of the entry for the output routines.
0401 c
0402
0403 call MOV3 (%val(packet_length),emb(36),emb(38))
0404
0405 emb$b_lm_type = 0
0406
0407 if (mslg$$b_format .eq. 0) then
0408 call MSLG$K_CNT_ERR (lstlun,packet_length)
0409
0410 else if (mslg$$b_format .eq. 1) then
0411 call MSLG$K_BUS_ADDR (lstlun,packet_length)
0412
0413 else if (
0414 1 mslg$$b_format .eq. 2 ! Disk transfer error
0415 1 .or.
0416 1 mslg$$b_format .eq. 5 ! Tape transfer error
0417 1 ) then
0418 call DISK_TAPE_TRANSFER_ERRORS (lstlun,packet_length)
0419
0420 else if (
0421 1 mslg$$b_format .eq. 3 ! SDI error
0422 1 .or.
0423 1 mslg$$b_format .eq. 6 ! STI error
0424 1 .or.
```

```
0425      1 mslg$$b_format .eq. 7          ! STI drive error
0426      1 .OR.
0427      1 mslg$$b_format .eq. 8          ! STI formatter error
0428      1 ) then
0429      call SDI_STI_ERRORS (lstlun,packet_length)
0430
0431      else if (mslg$$b_format .eq. 4) then ! Small disk error
0432      call MSLG$K_SML_DSK (lstlun,packet_length)
0433      else
0434
0435      call LINCHK (lstlun,1)
0436
0437      write(lstlun,10)
0438
0439      call DUMPREG (lstlun,(((packet_length) + 3)/4),emb(38))
0440      endif
0441
0442      c
0443      c      The IF-THEN-ELSE should be extended at this point to add
0444      c      additional "logmscp_type" formats.
0445      c
0446
0447      else
0448
0449      call LINCHK (lstlun,1)
0450
0451      write(lstlun,20) logmscp_type
0452      format(' ',t8,'ENTRY TYPE #',
20      1 i<compress4 (lib$extzv(0,16,logmscp_type))>,'.')
0454
0455      call LINCHK (lstlun,1)
0456
0457      write(lstlun,10)
0458
0459      call DUMPREG (lstlun,(((packet_length) + 3)/4),emb(36))
0460      endif
0461
0462      return
0463      end
```


PROGRAM SECTIONS

Name	Bytes	Attributes
0 \$CODE	798	PIC CON REL LCL SHR EXE RD NOWRT LONG
1 \$PDATA	208	PIC CON REL LCL SHR NOEXE RD NOWRT LONG
2 \$LOCAL	260	PIC CON REL LCL NOSHR NOEXE RD WRT LONG
3 EMB	512	PIC OVR REL GBL SHR NOEXE RD WRT LONG
4 SYECOM	44	PIC OVR REL GBL SHR NOEXE RD WRT LONG

Total Space Allocated 1822

ENTRY POINTS

Address	Type	Name
0-00000000		LOGMSCP

VARIABLES

Address	Type	Name	Address	Type	Name
4-00000012	L*1	CP_11750	4-00000011	L*1	CP_11780
4-00000013	L*1	CP_11722	4-00000014	L*4	CRYPTK_FLAG
4-0000000D	I*4	DEV_CHAR	3-00000010	L*1	EMBSB_LM_CLASS
3-00000014	L*1	EMBSB_LM_NAMING	3-00000011	L*1	EMBSB_LM_TYPE
3-00000000	I*4	EMBSL_HD_SID	3-00000015	CHAR	EMBST_LM_NAME
3-00000004	I*2	EMBSW_HD_ENTRY	3-0000000E	I*2	EMBSW_HD_ERRSEQ
3-00000024	I*2	EMBSW_LM_MSGTYP	3-00000012	I*2	EMBSW_LM_UNIT
4-0000001E	L*1	END_VALUE	4-0000001D	L*1	EOF_FLAG
4-00000004	L*4	FORMS	4-0000000C	L*1	LINES
3-00000010	I*2	LOGMSCP_TYPE	4-00000027	I*4	LSTLUN
AP-00000004B	L*1	LUN	4-0000001F	I*4	MAILBOX_CHANNEL
2-00000004	I*4	MSCP\$SB_ENDCODE	2-00000000	I*4	MSCP\$SB_OPCODE
2-00000008	I*4	MSLG\$SB_FORMAT	4-0000002B	CHAR	OPTIONS
2-0000000C	I*4	PACKET_LENGTH	4-00000008	L*4	PRINTER
4-00000000	I*4	RECCNT	AP-00000008B	I*4	RECORD_LENGTH
4-00000023	I*4	RECORD_SIZE	4-00000019	L*1	VALID_CLASS
4-0000001A	L*1	VALID_CPU	4-0000001B	L*1	VALID_ENTRY
4-0000001C	L*1	VALID_TYPE	4-00000018	L*1	VOLUME_OUTPUT

ARRAYS

Address	Type	Name	Bytes	Dimensions
3-00000000	L*1	EMB	512	(0:511)
3-00000026	L*1	EMBSB_LM_MSGTXT	460	(460)
3-00000006	I*4	EMBSQ_HD_TIME	8	(2)
3-00000024	L*1	MSCP_PACKET	476	(476)

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0239
0240
0241
0242

Subroutine LOGMSCP_HEADER ()

```

include      'src$:msghdr.for/nolist'
include      'src$:syecom.for/nolist'

byte         class_driver_array(4)
integer*4    class_driver
character*4   class_driver_string
equivalence  (emb(18),class_driver_array(1),class_driver_string,
1 class_driver)

integer*4     cddb$q_cntrlid_array(2)
integer*4     cddb$q_cntrlid1
equivalence  (cddb$q_cntrlid_array(1),cddb$q_cntrlid1)
integer*4     cddb$q_cntrlid2
equivalence  (cddb$q_cntrlid_array(2),cddb$q_cntrlid2)
equivalence  (emb(22),cddb$q_cntrlid_array(1))

byte         cddb$b_systemid_array(6)
integer*4     cddb$b_systemid1
equivalence  (cddb$b_systemid_array(1),cddb$b_systemid1)
integer*2     cddb$b_systemid2
equivalence  (cddb$b_systemid_array(5),cddb$b_systemid2)
equivalence  (emb(30),cddb$b_systemid_array(1))

byte         fao_array(4)
character*4   fao_string
equivalence  (fao_array(1),fao_string)

external     sys$fao
logical*4     sys$fao

call LINCHK (lstlun,2)

10 write(lstlun,10) 'CLASS DRIVER',class_driver
   format(/' ',t8,a,t24,z8.8)

   if (sys$fao('!AF',,fao_string,xval(4),class_driver_array(1))) then
   call LINCHK (lstlun,1)

15 write(lstlun,15) fao_string
   format(' ',t40,'/',a,'/')
   endif

   call LINCHK (lstlun,2)

20 write(lstlun,20) cddb$q_cntrlid1,cddb$q_cntrlid2
   format(' ',t8,'CDDB$Q_CNTRLID',t24,z8.8,/,
1 t24,z8.8)

```

```

0243
0244      call CDDBSQ_CNTRLID (lstlun,cddb$q_cntrlrid1,cddb$q_cntrlrid2)
0245
0246      call LINCHK (lstlun,2)
0247
0248      write(lstlun,25) cddb$b_systemid1,cddb$b_systemid2
0249      25      format(/' ',t8,'CDDBSB_SYSTEMID',t24,z8.8,/,
0250      1 t28,z4.4)
0251
0252      return
0253
0254      end

```

PROGRAM SECTIONS

Name	Bytes	Attributes
0 \$CODE	242	PIC CON REL LCL SHR EXE RD NOWRT LONG
1 \$PDATA	118	PIC CON REL LCL SHR NOEXE RD NOWRT LONG
2 \$LOCAL	96	PIC CON REL LCL NOSHR NOEXE RD WRT LONG
3 EMB	512	PIC OVR REL GBL SHR NOEXE RD WRT LONG
4 SYECOM	44	PIC OVR REL GBL SHR NOEXE RD WRT LONG
Total Space Allocated	1012	

ENTRY POINTS

Address	Type	Name
0-00000000		LOGMSCP_HEADER

VARIABLES

Address	Type	Name	Address	Type	Name
3-0000001E	I*4	CDDBSB_SYSTEMID1	3-00000022	I*2	CDDBSB_SYSTEMID2
2-00000004	R*4	CDDBSQ_CNTRLID1	3-00000016	I*4	CDDBSQ_CNTRLID1
3-0000001A	I*4	CDDBSQ_CNTRLID2	3-00000012	I*4	CLASS_DRIVER
3-00000012	CHAR	CLASS_DRIVER_STRING	4-00000012	L*1	CP_11750
4-00000011	L*1	CP_11780	4-00000013	L*1	CP_11722
4-00000014	L*4	CRYPTK_FLAG	4-0000000D	I*4	DEV_CHAR
3-00000000	I*4	EMBSL_HD_SID	3-00000004	I*2	EMBSW_HD_ENTRY
3-0000000E	I*2	EMBSW_HD_ERRSEQ	4-0000001E	L*1	END_VALUE
4-0000001D	L*1	EOF_FLAG	2-00000000	CHAR	FAO_STRING
4-00000004	L*4	FORMS	4-0000000C	L*1	LINES
4-00000027	I*4	LSTLUN	4-0000001F	I*4	MAILBOX_CHANNEL
4-0000002B	CHAR	OPTIONS	4-00000008	L*4	PRINTER
4-00000000	I*4	RECCNT	4-00000023	I*4	RECORD_SIZE
4-00000019	L*1	VALID_CLASS	4-0000001A	L*1	VALID_CPU
4-0000001B	L*1	VALID_ENTRY	4-0000001C	L*1	VALID_TYPE
4-00000018	L*1	VOLUME_OUTPUT			

ARRAYS

Address	Type	Name	Bytes	Dimensions
3-0000001E	L*1	CDDBSB_SYSTEMID_ARRAY	6	(6)
3-00000016	I*4	CDDBSQ_CNTRLID_ARRAY	8	(2)
3-00000012	L*1	CLASS_DRIVER_ARRAY	4	(4)
3-00000000	L*1	EMB	512	(0:511)
3-00000006	I*4	EMBSQ_HD_TIME	8	(2)
2-00000000	L*1	FAO_ARRAY	4	(4)

LABELS

Address	Label	Address	Label	Address	Label	Address	Label
1-00000018	10'	1-00000025	15'	1-00000032	20'	1-00000053	25'

FUNCTIONS AND SUBROUTINES REFERENCED

Type	Name	Type	Name	Type	Name
	CDDBSQ_CNTRLID		LINCHK		L*4 SYSSFAO

COMMAND QUALIFIERS

FORTRAN /LIS=LIS\$:LOGMSCP/OBJ=OBJ\$:LOGMSCP MSRC\$:LOGMSCP

/CHECK=(NOBOUNDS,OVERFLOW,NOUNDERFLOW)

/DEBUG=(NOSYMBOLS,TRACEBACK)

/STANDARD=(NOSYNTAX,NOSOURCE_FORM)

/SHOW=(NOPREPROCESSOR,NOINCLUDE,MAP)

/F77 /NOG_FLOATING /I4 /OPTIMIZE /WARNINGS /NOD_LINES /NOCROSS_REFERENCE /NOMACHINE_CODE /CONTINUATIONS=19

COMPILATION STATISTICS

Run Time: 4.86 seconds
Elapsed Time: 14.09 seconds
Page Faults: 187
Dynamic Memory: 183 pages

